

**To:** RANDLETTE, LISA (DNR)[[LISA.RANDLETTE@dnr.wa.gov](mailto:LISA.RANDLETTE@dnr.wa.gov)]  
**From:** FERRIS, MELISSA (DNR)  
**Sent:** Tue 1/28/2014 11:20:33 PM  
**Subject:** FW: data - State of Washington and Oregon, ship recycling costs  
[tblVesselInfo Query1-09-14.xlsx](#)

**Melissa Ferris**

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**From:** FERRIS, MELISSA (DNR)  
**Sent:** Thursday, January 09, 2014 4:29 PM  
**To:** 'Mudroch, Paul'  
**Subject:** RE: data - State of Washington and Oregon, ship recycling costs

Hi Paul,  
Sorry I didn't respond before. Been a busy week. Hope it has warmed up for you. It is rainy and balmy here. Not cold at all right now.

The attached is a fuller data dump of info we have electronically for the vessels we have removed including some of the fields you were wondering about. I went through the fields and stripped out most of the vessel owner information for privacy reasons. As you will see some of the fields, like whether the vessel was floating or sunken, are new and therefore are lightly populated. You may be able to fill some of those fields from information in the "Description of Incident" or "Summary" fields. Also, on the budget spreadsheet I sent you there is a page for each vessel that DNR took the lead on removing. You may be able to tell from the vessel page whether we hired a contractor to raise the vessel, and then a contractor to dispose of the vessel (indicating we probably had an emergency response to a sinking or beached vessel) or just a contractor to dispose of the vessel. Also see comment below.

I will be gone next week but if you have any logistical questions please feel free to call Tammy Robbins 360-902-1548.  
Cheers,  
Melissa

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**From:** Mudroch, Paul [<mailto:Paul.Mudroch@tc.gc.ca>]  
**Sent:** Thursday, January 09, 2014 11:47 AM  
**To:** FERRIS, MELISSA (DNR)  
**Subject:** data - State of Washington and Oregon, ship recycling costs

Good afternoon:

I just wanted you to know that I have looked at the data that you send me – and no, I am not blaming you for anything, since I think you said this – but I cannot see any trends in the existing data, unless the fields that are not filed out will provide some more insight. Which is fine – maybe we can kind of get some kind of a costing formula; but right now, I tried:

Splitting the data into length

Splitting the data by type of material

Splitting the data by type of material and type of vessel

Splitting the data by type of material, length, type of vessel

Looking at “outliers” – but I do not have enough data to figure out why a vessel that is, for example, made out of wood, 31 feet in length, and total removal cost is for one vessel \$2,671 and another one is \$13,929. Same length, so if I calculate removal cost per foot, then I get a rather large range. But then, there was no data for status, or method of disposal and of course, I have not plotted the location of the vessel when found (maybe you have experience with that, and we can talk about it when I am out there). **The vessel id starts with two letters indicating the county of origin. Time of day/week also heavily influences removal cost because we start paying overtime or double time.**

Anyway, the data set is very useful; it tells me what data we should be collecting once we get into removal. And of course, it tells me that there is a rather large variability in the cost of removal of vessels – same size, same material. I know you said this when we saw each other the last time.

If I can fill in any of the missing fields, that would be great. And if my conclusion, supported by a good data set, is that it is impossible to predict the cost of removal of a vessel without actually going through with the project, so be it.

I hope that this all makes sense. I really really want to thank you very much for sharing the data. It is very helpful – and frustrating. I have looked at all kinds of data – environmental data – and in this set, I just cannot get to a pattern at all.

Any questions or comments regarding the above are welcome.

Paul

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